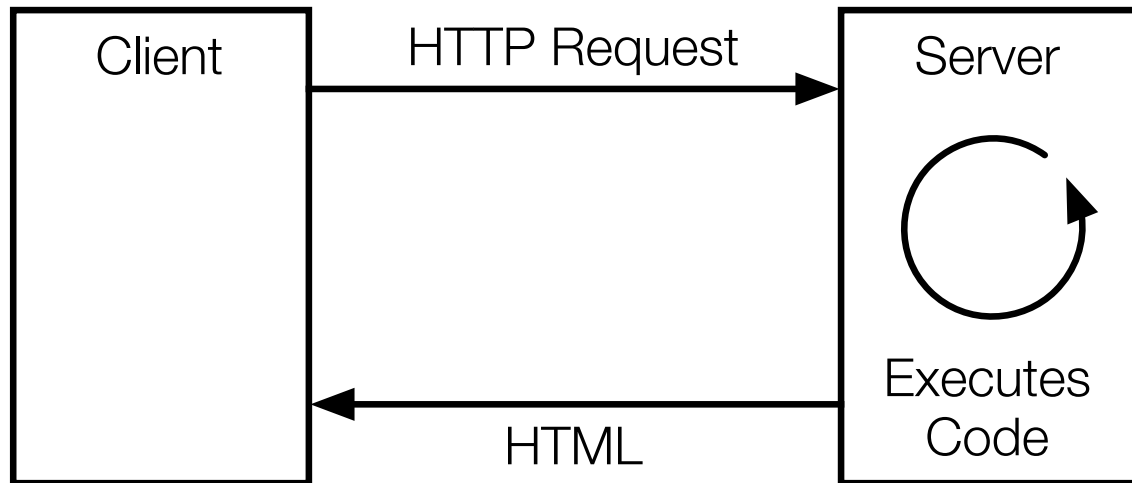


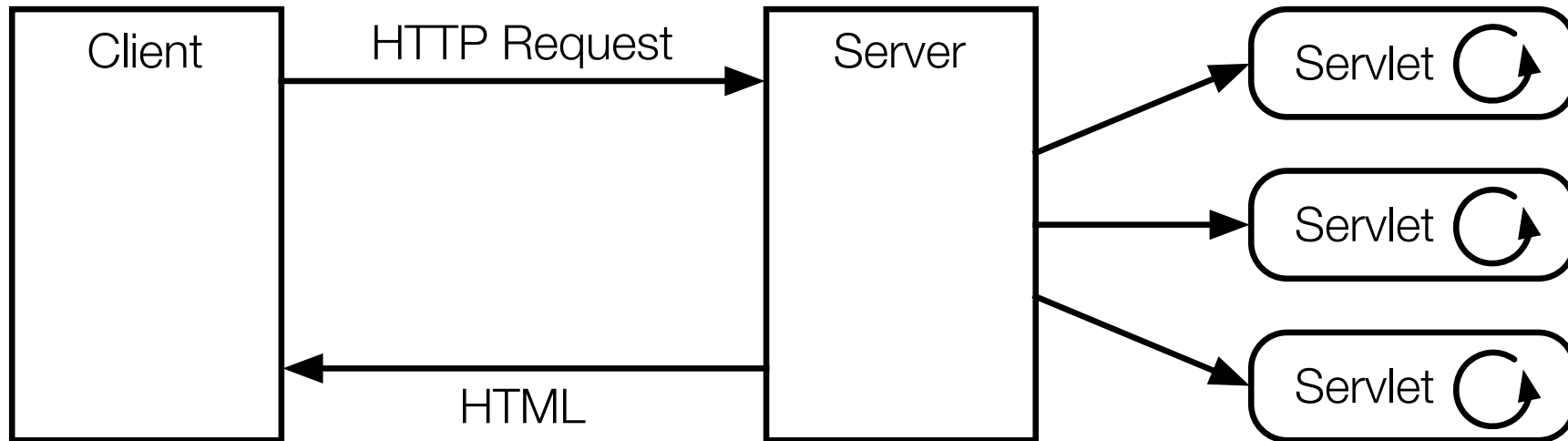
Dynamic Webpages

Servlets

Dynamic Web Pages (Server-Side)



Dynamic Web Pages (Servlets)



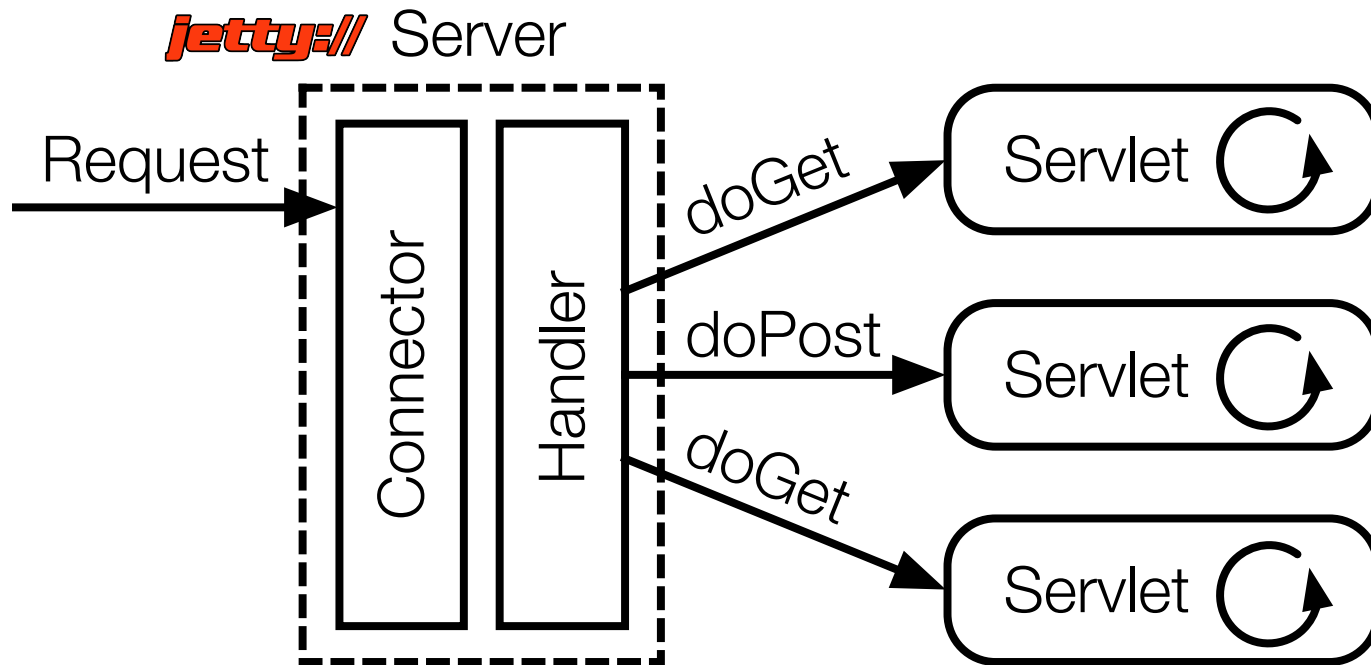
Eclipse's Web Server



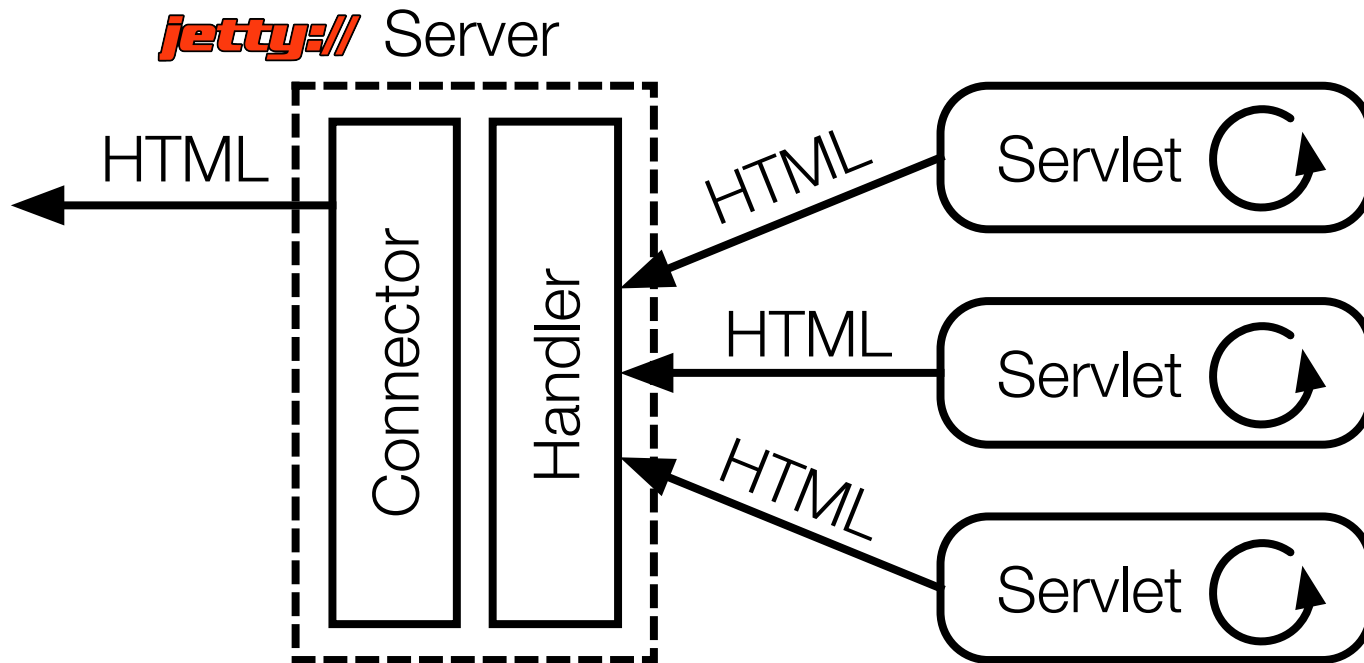
<http://www.eclipse.org/jetty/>



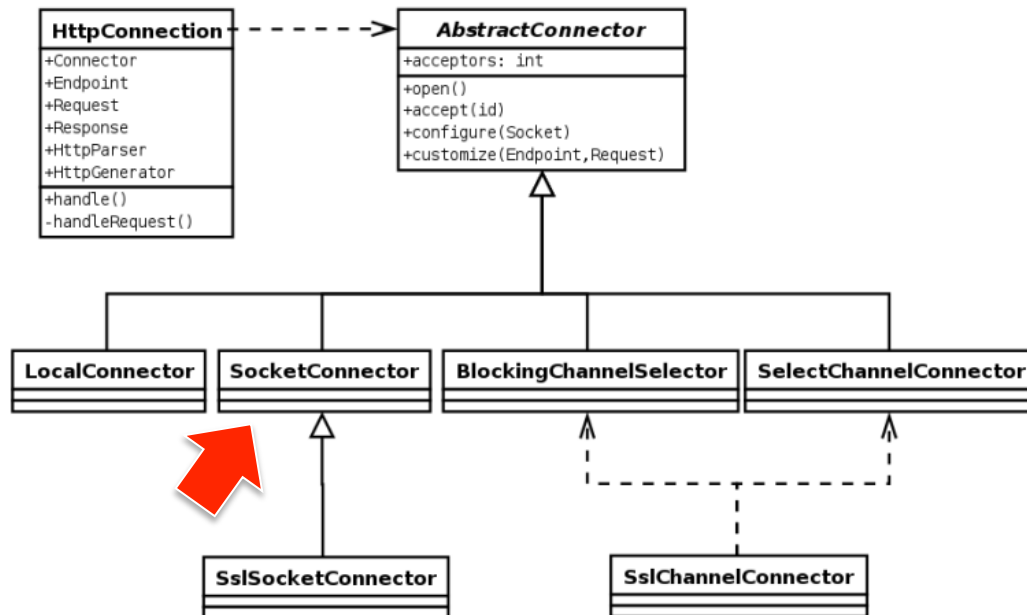
Dynamic Web Pages (Jetty)



Dynamic Web Pages (Jetty)

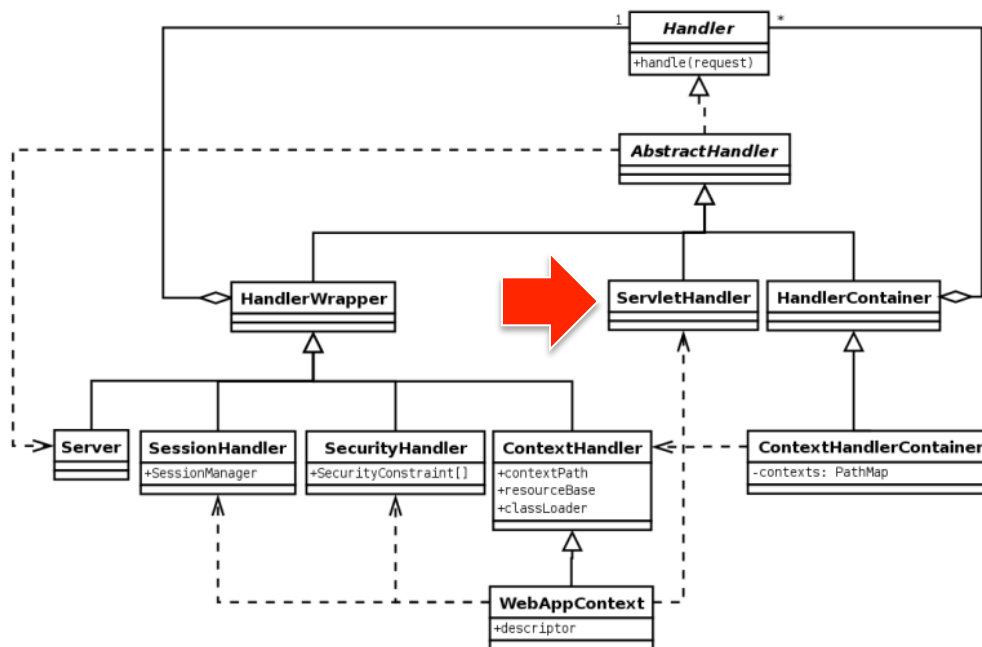


Jetty Connectors



<http://www.eclipse.org/jetty/documentation/current/architecture.html>

Jetty Handlers



<http://www.eclipse.org/jetty/documentation/current/architecture.html>

Java Servlets and Jetty

- Servlets
 - Java package for servicing HTTP requests
 - Generates HTML for dynamic web pages
 - Used by web servers, not a web server itself
- Jetty
 - Embeddable, multithreaded web server in Java
 - Good for single-purpose applications or prototyping



Java Servlets and Jetty

```
1 public static void main(String[] args) throws Exception
2 {
3     ServletHandler handler = new ServletHandler();
4     handler.addServletWithMapping>HelloServlet.class, “/”);
5
6     Server server = new Server(8080);
7     server.setHandler(handler);
8     server.start();
9     server.join();
10 }
```

<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>



Java Servlets and Jetty

```
1 public static class HelloServlet extends HttpServlet {
2     @Override
3     protected void doGet(HttpServletRequest request,
4                           HttpServletResponse response)
5                           throws ServletException, IOException {
6         response.setContentType("text/html");
7         PrintWriter out = response.getWriter();
8         out.printf("<p>hello!</p>");
9         response.setStatus(HttpServletResponse.SC_OK);
10    }
11 }
```

<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>



API Documentation

- Servlet Documentation
 - <http://docs.oracle.com/javaee/6/api/>
 - Go to javax.servlet package
- Jetty Documentation
 - <http://download.eclipse.org/jetty/stable-9/apidocs/>
 - <http://www.eclipse.org/jetty/documentation/>



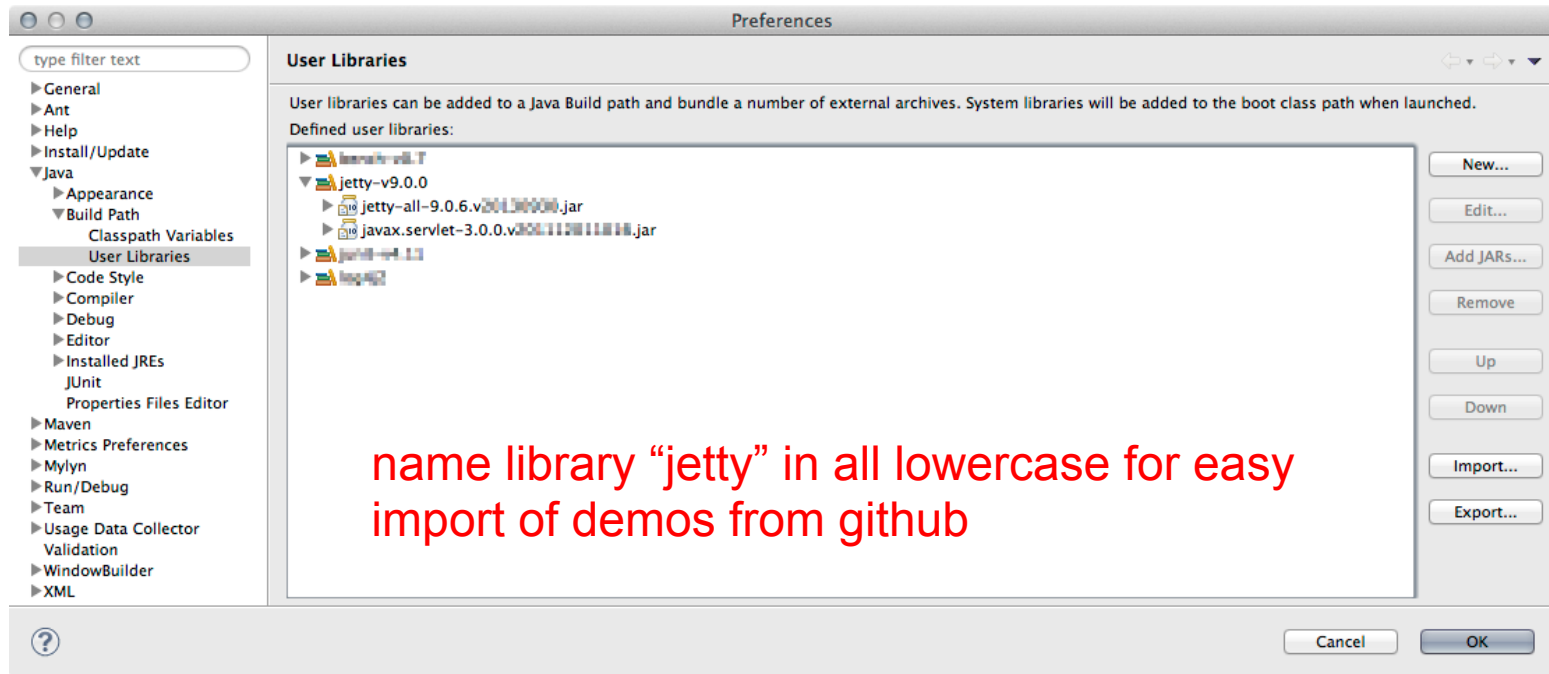
Installing Jetty (for Embedding)

- Download latest aggregate 9.x.x Jetty jar file
 - <http://central.maven.org/maven2/org/eclipse/jetty/aggregate/jetty-all/>
- Download latest javax.servlet 4.x.x jar file
 - <http://central.maven.org/maven2/javax/servlet/javax.servlet-api/>
- Add to Eclipse as a third-party library

<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>



Installing Jetty (for Embedding)



<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>





CHANGE THE WORLD FROM HERE